

VOL. IV, PP. 209-215, LXXXIV

February 22, 1893

THE
NATIONAL GEOGRAPHIC
MAGAZINE



WASHINGTON

Published for the National Geographic Society

by Oliver

Price 25 cents

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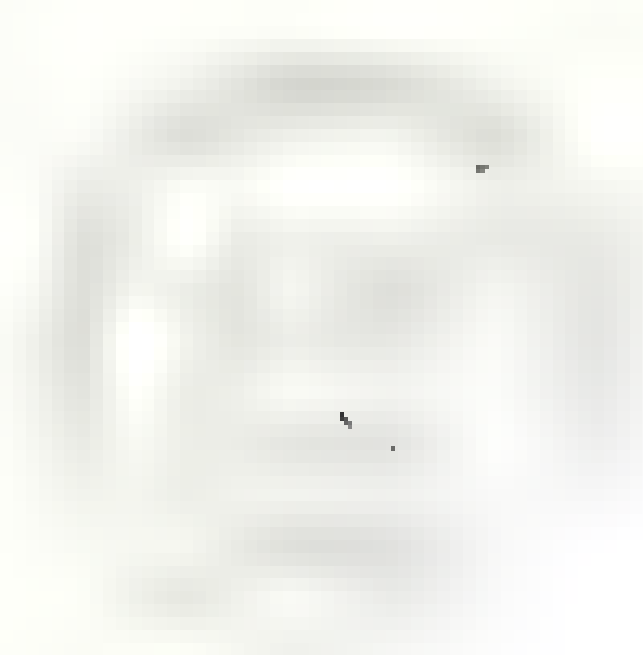
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THE
NATIONAL
GEOGRAPHIC MAGAZINE

VOLUME IV, 1892

Engraved by

J. Johnston, Philadelphia



PUBLISHED BY

THE NATIONAL GEOGRAPHIC SOCIETY

OFFICE OF THE INTERNATIONAL FRATERNITY SOCIETY

1917

THE INTERNATIONAL FRATERNITY SOCIETY
OF AMERICA

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in the collection of recent bibliographies, the Society takes cognizance of and publishes the work done in the whole of pure mathematics. Each number of the journal is provided in The National Science Foundation Library 25 copies of the journal free of charge to the author and a copy of each volume is deposited by a letter on the cover of proof-work submitted for publication. These separate references are given on the title page of the published volume issued by the Society. It is the duty of the author to place signature and date on the paper number may be listed of copies of each volume. The author should advance on cover of proof-work a copy of provided these copies by hand (1) containing the number of the journal, volume, page, number and volume from which the copy are extracted. The author should also indicate the number of copies of the book are sent by the Society. The Manuscript is not any original, and the author may be required (freely) and a number of copies to be kept as known to keep.

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CONTROL ANNUAL REPORT OF THE SOCIETY OF NATURALISTS

Presented to the Society, December 28, 1901

Membership.—The Society was organized in January, 1888, with a membership of 165. At the end of the first year the membership was 204, of the second 282; of the third, 307, and at the end of this fourth year the membership is 424.

Since the last annual meeting the membership has been increased by the election of 78 new members. It has been decreased by the resignation of 11 members; by the death of 3 members, by the withdrawal of 14 members, by exchanging of 18, and by the dropping of members for nonpayment of dues. There has thus been a net increase of 82 members, and the present membership is 410, as above stated.

The deceased members were Mr Z. F. Carver, Mr H. W. Wadsworth, and Mr A. H. Wadsworth.

The new members are as follows:

Active
Corresponding
Life

Total

410

Meetings.—The Society has held 25 meetings during the year, of which 14 were for the reading and discussion of papers, 11 were free public lectures. One was a popular lecture at which no admission fee was charged. One was a field meeting at Shenandoah, Virginia, June 3 and 4, at which was the annual business meeting. Of the 25, 17 were regular and 16 were special meetings.

Board of Managers.—The Board of Managers met 17 meetings for the transaction of the business of the Society. The average attendance was 10. The largest attendance of the 17 members composing the board being 13, and the smallest 4.

There is one vacancy in the board, caused by the resignation of Captain Rogers Pardee, Junior, on May 15.

Explorations.—The work of exploration in Alaska began last year was continued during the present one. For 18 for the year

The results of the seasons' exploration are believed to be of considerable importance, and will be published the coming year in the National Geographic Magazine.

Publications.—During the year volume 11 of the National Geographic Magazine was completed by the publication of number 5, consisting chiefly of administrative matter together with the progress, progress, etc., of the various expeditions.

The form of publication was changed during the present year. The new rules adopted February 1 are printed on page 21-24 of volume 11 of the magazine. The general effect of the change instituted by these rules is to substitute for a publication at stated intervals, a publication of single papers or numbers at irregular intervals, as needed and approved for publication. Under this new mode of publication the pages of volume 11 of the National Geographic Magazine have been published and distributed. The principal part of volume 11 so far published consists of Mr. Russell's report on the exploration of the coast of Saint Louis region in 1890.

MARGUS BAKER,
C. A. KENNEDY,
Secretaries.

FOURTH ANNUAL REPORT OF THE TREASURER

(Presented to the Society December 23, 1891)

To the President and Members of the National Geographic Society:

I have the honor to submit herewith my annual report, showing receipts and disbursements for the year ending December 23, 1891.

Our receipts for dues for 1891 amount to \$1,400, showing an increase over the receipts for 1890 of \$171.

The assets of the Society are—

None of M. N. Thompson's securities, by deed of trust	\$750 00
Cash on hand, Dec 1 & 1891	26 00
Balance 1889—no fund	214 00

\$1,000 00

The liabilities are—

Advance by committee of Messrs. J. & Co.	\$500 00
Interest on a note to same	22 50
Outstanding bills, not yet presented—none	80 00

\$602 50

J. BELL,
Treasurer.

[The page contains extremely faint, illegible markings and bleed-through from the reverse side.]

100

WILKEL, FRED

— 10 —

REPORT OF THE AUDITING COMMITTEE

*Presented to the Society January 3, 1902**To the President and Members of the National Geographic Society*

WE, a committee appointed at the annual meeting of the Society to audit the accounts of the Treasurer for the year ending December 31, 1901, beg to submit the following report:

The statement of the receipts, consisting of dues from members, receipts from auditors, net profit from book and subscription to the expedition, and other receipts, has been examined and found correct.

The vouchers for expenses, as well as the cash payment thereon, have been examined and approved and reported correct.

We have examined the bank book showing the account with Messrs. Hall & Co. and found the balance to be \$36.70 as reported.

P. H. CHRISTIE

E. E. HAYFELL

MADISON & SMITH

Committee

REPORTS
OF THE
NATIONAL GEOGRAPHIC SOCIETY

Abstract of Minutes

January 22, 1892

63rd meeting.

Meeting held in the Assembly Hall of the Cosmos Club. Mr. C. K. Townsend in the chair.

Resolution 1, was voted upon. A amendment to the By-laws numbered December 23, 1891, be adopted, viz: In article 5, instead of five vice-presidents read "six vice-presidents," and insert at the end of the list of departments of geographic science, after geography, the art, the words "commerce of geography."

The vice-presidents delivered their annual reports.

Mr. Ogden, for the department of the geography of the land, spoke of the progress made in methods of geologic work.

Mr. Hayden, for the department of geography of the sea, spoke on the subject of "Recent nautical observations," exhibiting three slides showing the changes in position of these lanes.

General Greely's report on the geography of the air, was read by title. *Printed in this volume, pages 85-100.*

Mr. Gannett, for the department of geographic art, read a paper on "Better maps of the United States," illustrating his statements by a large map showing diagrammatically the value for mapping purposes of the various surveys in the United States. *Printed in this volume, pages 101-116, plate 17.*

January 29, 1892.

Special meeting.

Meeting held in the Lecture Hall of Columbian University. Vice-President Hayden in the chair. Attendance, 400.

Professor C. A. Kemerton read a paper on "The Bryant Expedition to Grand Falls, Labrador," and at the conclusion showed a number of lantern slides made from photographs taken during the course of the expedition.

February 5, 1892

Ordinary

Meeting held in the Assembly Hall of the Connecticut Academy of Science in the chair. Attendance, 50.

The following amendment to the By-laws was proposed: article III last paragraph, strike out all words following "elections for membership," and, so that the sentence shall read, "The election of members shall be referred to the Board of Managers."

Dr C. Willard Hayes read a paper on "A new track at Alaska," describing a new route proposed by the Seawall party, of which he was a member in the explorations of last year and illustrating the relative positions by a large wall map. *Printed in this volume, pages 117-121; plates 18-21.*

February 12, 1892

Science meeting

Meeting held in the Lecture Hall of Columbia University. Vice-President Ogden in the chair. Attendance, 200.

Professor Charles Sprague Smith delivered a lecture on "Ice-bergs," illustrated by lantern slides showing views of numerous ice-bergs and various objects of interest as they relate to the history.

February 14, 1892

Good meeting

Meeting held in the Lecture Hall of Columbia University. President Hildreth in the chair. Attendance, 200.

Mr Alexander Dicksman read a paper on "Art and architecture of the ancient Egyptians," exhibiting a large number of photographs of ancient temples and pyramids.

February 22, 1892

Special meeting

A special meeting was held at Worcester, held from 9 to 12 o'clock for the purpose of bringing the members together for mutual help in science. Attendance, 220.

February 23, 1892

Special meeting

Meeting held in the Lecture Hall of the National Museum. Attendance, 175.

Mr Robert Thompson read a paper on "Military service during the Civil War" and was followed by Mr. Fred Hotchkiss, who graphically described the mapping operations of the topographers of the Confederate army, showing at the same time numerous original maps of historical value.

March 4, 1892

64th meeting

Meeting held in the Assembly Hall of the Cosmos Club. Vice-President Hayden in the chair. Attendance, 118.

By vote of the Society the following amendment to the By-laws was adopted: in article III, last paragraph, strike out the words following "Nominant and seconded by," so that the paragraph shall read "The election of members shall be entrusted to the board of Managers."

The subject of the evening, the "Alaskan Boundary Survey," was introduced by Lieut. C. Macmillan, who was followed by Mr. John E. McGrath and Mr. J. Henry Turner. The papers were illustrated by lantern slides. The books were gift-covered by Lieut. George M. Johnson. *Proceedings of the evening*, pp. 177-180.

March 11, 1892

Special meeting

Meeting held in the lecture hall of the Cosmos Club. President Hayden in the chair. Attendance, 38.

Mr. Joseph Stanley Brown gave an address on "The geographical features of Alaska," illustrated by pictures of the land and sea.

March 18, 1892

65th meeting

Meeting held in the Lecture Hall of the National Museum. Vice-President Ogden in the chair. Attendance, 250.

Mr. C. K. Gilbert read a paper on "Contributions to the geology of the Interior of the United States." A number of lantern slides were exhibited, illustrating the topography and geology of the area, and two large meteoric iron plates shown.

March 25, 1892

Special meeting

Meeting held in the Lecture Hall of the National Museum. Mr. C. K. Gilbert in the chair. Attendance, 50.

Dr. W. A. Croft gave a sketch of a trip through Greece and Palestine, describing in particular the ruins of Jerusalem, and about each of the Holy Sepulchre, discussing the remarks by Professor B. P.

April 1, 1892

66th meeting

Meeting held in the Lecture Hall of the National Museum.

Professor Leslie A. Lee of Bowdoin College, gave an illustrated lecture on the "Crust of the *Phanerozoic*," and the strata of Magellan.

April 8, 1892.

Special meeting

Meeting held in the Lecture Hall of the National Museum. Vice-President Hayden in the chair. Attendance, 275.

Lieutenant L. H. Burdick, U. S. N., gave a description of a trip through Bolivia, illustrating his topic by lantern slide views taken at various points in the country.

April 15, 1892.

6th meeting

Meeting held in the Lecture Hall of the National Museum. Attendance, 431.

Mr. W. H. Holmes, of the Bureau of Ethnology, gave an illustrated lecture on the "Chiricahua." At the close of the lecture remarks were made by Major J. W. Powell.

April 22, 1892.

Special meeting

Meeting held in the Lecture Hall of the National Museum. President Hubbard in the chair. Attendance, 440.

Dr. John Murray, F. R. S. E., gave a description of the cruise of the *Challenger* and sketched up some of the results of the investigation of the ocean bottom. The descriptions of the deepest mud at various depths were profusely illustrated by lantern slides.

April 29, 1892.

68th meeting

Meeting held in the Assembly Hall of the University of the Vice-President Hayden in the chair. Attendance, 140.

Lieutenant S. W. B. Diehl, U. S. N., gave a lecture on "The compensation of the compass on board iron ships," illustrating his remarks by diagrams, and exhibiting a ship's compass together with the various magnets and other apparatus employed.

Professor Cleveland Abbe spoke briefly on terrestrial magnetism.

May 6, 1892.

Special meeting

Meeting held in the Lecture Hall of the National Museum. Vice-President Hayden in the chair. Attendance, 600.

Lieutenant Professor John P. Peters delivered a lecture "Mesopotamia," describing the country and his experience there during his two seasons work. Extensive. A large number of lantern slides were shown.

May 15, 1892.

6th meeting

Meeting held in the Lecture Hall of the National Museum. Vice-President Hayden in the chair. Attendance 307.

Mr. Talbot Williams delivered an address on "The gates and straits of Europe," describing the influence of the surface configuration on the development of civilization.

May 20, 1892

Special meeting

Meeting held in the Audubon Exchange Hall. President Hubbard in the chair. Attendance, 70.

Mrs. M. French Sheldon gave a description of her journey in Africa, illustrating her remarks with lantern slides made from photographs taken on the trip.

May 27, 1892

Field meeting

A party of members left Washington for Annapolis, where they were received by the secretary of state of Maryland and welcomed on behalf of Governor Brown, who was detained at Baltimore. The house state house was first visited, and, after luncheon, the house of commons. Proceeding on to the Naval Academy, the members were, through the kindness of commander Phyllis and the commodore, taken to the cruiser *Indiana*, which, with other vessels of the squadron, was anchored in the bay. Returning to the grounds, the party was invited to witness dress parade. After supper to the Society, through the courtesy of the Governor, held a meeting at the House of Delegates, addresses being made by Messrs. Gilbert Moore, D. J. Russell and W. J. Little. The two gentlemen last named giving incidents of the history of the place. Following there was an original poem by Mr. Crillat. On motion of Reverend Gilbert F. Williams, it was voted "That the thanks of this Society be extended to the governor of the state of Maryland for the courteous hospitality of the room for the meeting of the Society and for the privilege of entrance to every part of the institution building—that our thanks be also extended to the superintendent of the Naval Academy and to Captain C. M. Chester, U. S. N., for giving the Society the opportunity of visiting one of the new cruisers of the navy and also for the special parade at the academy—as also to the lady managers of the old Chase mansion for the opportunity of inspecting that building, and to

A case for the interesting narratives of incidents of local history." At the close of the meeting the Society returned to Washington.

November 11, 1892

19th meeting

Meeting held in the Assembly Hall of the Cosmos Club. President Hubbard in the chair. Attendance, 40.

In the absence of the secretary, Mr Baker was elected Secretary *pro tempore*.

The evening was devoted to a consideration of the program of exercises for the season. The president announced it as thus far drafted, and invited suggestions. It was generally agreed that the program should

consist, alternating with meetings to be held in the Club Hall of a more informal character and devoted to shorter lectures and papers, with occasional

November 25, 1892

7th meeting.

Meeting held in the Assembly Hall of the Cosmos Club. Vice-President Greely in the chair. Attendance, 40.

Mr W J McGee gave an address on "Geographic changes produced by earthquakes," presenting phenomena observed within the area of the New Madrid earthquake of 1811 to 1813.

December 2, 1892

Special meeting.

Meeting held in the Universalist Church. Vice-President Greely in the chair. Attendance, 60.

Mrs Anne S. Peck, of Providence, Rhode Island, delivered an illustrated lecture on "Athens, the modern city of Greece."

December 9, 1892

12th meeting

Meeting held in the Assembly Hall of the Cosmos Club. Vice-President Greely in the chair. Attendance, 80.

Mr Henry Campbell, secretary of the Eleventh Census read a paper on "Movement of population in the United States, illustrated by a number of charts." The paper was discussed by Messrs Ogden, Baker, Herbert Thompson, Johnson and Greely. To be printed in volume 4.

December 16, 1892

Special meeting

Meeting held in the Builders' Exchange Hall. Vice-President Greely in the chair. Attendance, 40.

Mr Roslyn Hitchcock read a paper on "China," especial reference being made to a trip from Shanghai to Tokio. The lecture was illustrated by a number of stereoscopic views made from photographs taken on the trip, including a number showing the great wall of China.

December 23, 1892

34th (5th annual) meeting

Meeting held in the Assembly Hall of the Cosmos Club, President Hubbard in the chair. Attendance, 40.

Lecturer W. B. Powell, Superintendent of Public Schools, read a paper on "Methods of teaching geography in the schools." The paper was discussed by Leonard Carey and Dr. Merrill Hall.

After a recess the 6th annual meeting continued.

The joint report of the Secretaries was presented and adopted.

The annual report of the Treasurer was presented and referred to an auditing committee consisting of Messrs Winsor, Dana, Wright and Dr. Anna Newcomb Moore.

The annual election of officers for the year 1893 was then held, with the following result:

President—Charles G. Hubbard.

Vice Presidents—H. G. Oeder (Latin),

Everett Hayward (GEO.),

W. B. Powell.

C. Hart Merriam (GEO.),

Henry Townsend (ART).

R. N. Batchelder (commercial geography).

Treasurer—C. J. Bell.

Recording Secretary—F. H. Newman.

Corresponding Secretary—E. W. Johnson at Secretary.

Managers—Marcus Baker.

H. F. Elliott.

G. K. Gilbert.

W. L. Gifford.

W. B. Powell.

W. B. Powell.

W. B. Powell.

E. W. Johnson.

FIFTH ANNUAL REPORT OF THE SECRETARIES

Presented to the Society December 23, 1892

Membership.—The membership of the Society is now 643. It is continuing to increase, and, for the cooperation of all interested scholars, it is to be hoped, soon to reach 1000. The rate of progress is shown by the following figures.

At the end of the first year, 1888, the membership was 260; at the end of 1889 it was 228, an increase of 9 per cent; at the end of 1890 it was 342, an increase during the year of 52 per cent; at the end of 1891 it was 440, an increase of 29 per cent; and at the end of 1892 it is 643, or an increase of 61 per cent.

Classifying the membership, it is found that there are 478 active, 284 postage paying, and 7 life members. Taking the active members alone the total number at the end of 1890 was 331; at the end of 1891, 353, an increase of 2 only, and at the end of 1892, 542, an increase of 55 per cent.

Comparing the corresponding membership the number increasing from 57 in 1890 to 142 in 1891 and to 268 in 1892, a gain in the last year of over 180 per cent.

It may be well to note at this point that the corresponding members, being non-resident, are not able to take advantage directly of the meetings of the Society, and that the interest in the organization is entirely dependent upon the published transactions. Consequently the membership of this class therefore, must necessitate greater attention to the demand of readers of geographic literature.

During the year 423 members have been elected, 33 members have resigned, 100 of 6 declined membership, 13 failed to re-nue, and 14 have been dropped for non-payment of dues. The net increase thus has been 246, and the present total membership is 643, as stated above. The deceased members were—E. J. Pond, January 23, 1892; Dr. J. H. Collins, March 14, 1892; Professor John G. Thompson, October 10, 1892; the Rev. Dr. Frederick Schwab, November 2, 1892; and Captain John M. Dow, November 4, 1892.

Meetings.—There have been 31 meetings or assemblies of the members of the Society. Of these 14 were regular meetings and

16 special. The latter number includes one social at Wornley's hotel on February 24, a ball meeting at Annapolis, Maryland, on May 27, and a soiree lawn party at Twin Oaks, where by invitation of the President fully 500 members and guests were handsomely entertained.

One of the regular meetings was for the election of officers and transactors of business. The remaining 26 meetings, regular and special, were devoted mainly to lectures or reading of papers, and the average attendance was 442. On eleven of the lectures or papers were aided by use of the stereopticon, and on these meetings the attendance averaged 410. When lantern slides were not used the average attendance was 131 or less than half.

There has been no regularity as regard to place of meeting. The hall of the Smithsonian has been used 19 times, there being 185 members and guests present; the hall of Colarney 4 times, the audience averaging 225 persons; the National Museum lectures room 14 times, averaging 278 persons; and other halls or churches 4 times, averaging 200 persons.

The subjects under discussion by the various speakers have been widely diverse, embracing nearly every quarter of the globe. Greatest attention has been paid to northern regions, even one being devoted to Alaska, Green land, Iceland, Labrador, etc.

Managers—The Board of Managers have held 18 meetings for the year, 17 of the Society. Of these 13 were regular, and the highest attendance of the 17 members was 12, and the average was 8 members.

No explorations have been completed, but the efforts of the managers have been directed toward strengthening the Society in every way.

A change in the By-Laws was adopted March 4, 1892, by which the election of new members was greatly facilitated, being left more directly in the hands of the Board of Managers. A new office, that of Vice-President of the American program, was created at the beginning of the year, which as yet remains unfilled.

Publications—During the year six brochures have been published, one of these forming the last number of volume 11 and five the larger portion of volume 12 of the magazine.

H. S. WERT
ELIZA R. S. LOWREY,

FIFTH ANNUAL REPORT OF THE TREASURER

(Presented to the Society December 28, 1893)

To the President and Members of the National Geographic Society.

I have the honor to submit herewith my annual report, showing receipts and disbursements for the year ending December 31, 1892.

The receipts for dues for 1892 amount to \$2,135, an increase over the receipts for 1891 of \$1,165.

The assets of the society are

Amount invested in American Securities and Trust	
Compuer & Co's bonds	\$2,000.00
Cash with Bell & Company	" 100.00
Balance for 1891 surplus	" 100.00
	\$2,200.00

The liabilities are

Interest and bills amount	\$2,500.00
---------------------------	------------

The cash on hand includes \$10,000 for one life membership which should be reserved and invested in accordance with instructions received from the Board of Managers.

Very respectfully,

C. J. BELL,
Treasurer

Report of the Treasurer

XX

18

IN THE TREASURY DEPARTMENT FOR THE YEAR 1890

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REPORT OF THE AUDITING COMMITTEE

*(Presented to the Society January 31, 1908)**To the President and Members of the National Geographic Society.*

The committee appointed at the annual meeting of the Society to audit the accounts of the Treasurer for the year ending December 31, 1907, beg to submit the following report.

The Treasurer's statement of the receipts, consisting of dues from members, interest on investments and sale of magazines has been examined and found to be correct as shown by the books of his office.

The vouchers for expenditures and checks in payment thereof have been examined, compared, and found correct.

We have examined the cash book, showing the account with Messrs. Bancroft Co. and found the cash balance to be two hundred and five and thirty-one hundredths dollars (\$205.31), as stated.

The three bonds for \$100 each, registered in the name of the Society, were submitted to us for our action.

LESLIE WINGEN.

D. M. WATSWORTH.

ALVA NEWCOMB MORGAN, M.D.

Chairman.

